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NOTICE OF ALLOWANCE AND FEE(S) DUE

24267

7590

12/23/2009

CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE BOSTON, MA 02210 EXAMINER

HUSSAIN, TAUQIR

ART UNIT PAPER NUMBER

2452

DATE MAILED: 12/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,558	07/18/2003	Abhijeet Gole	112056-0099	4806

TITLE OF INVENTION: SYSTEM AND METHOD FOR RELIABLE PEER COMMUNICATION IN A CLUSTERED STORAGE SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	А	TTORNEY DOCKET NO.	CONFIRMATION NO.	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/23/2010	
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
HUSSAIN,	, TAUQIR ence address or indication	2452	709-224000				
Change of corresp Address form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A: PLEASE NOTE: Unl	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 12 or more recent) attach ND RESIDENCE DATA less an assignee is identi	Indication form ed. Use of a Customer TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or type data will appear on the part of the	ely, e firm (having as a megent) and the names neys or agents. If no printed. e) tent. If an assignee	nember a 2 of up to name is 3	document has been filed for	
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a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	ured) will not be accepted tes Patent and Trademark	d trom anyone other than the Office.	ne applicant; a registe	ered attorney or agent; or t	he assignee or other party in	
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This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria. V	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bur irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 min idual case. Any com r, U.S. Patent and Tr D THIS ADDRESS. S	public which is to file (ar nutes to complete, includi ments on the amount of t ademark Office, U.S. Dep SEND TO: Commissioner	nd by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,	

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CESARI AND I	MCKENN	HUSSAIN, TAUQIR				
88 BLACK FALO		ART UNIT	PAPER NUMBER			
BOSTON, MA 02210				2452		
				DATE MAILED: 12/23/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 632 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 632 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

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	Application No.	Applicant(s)			
Netice of Allematik	10/622,558	GOLE ET AL.			
Notice of Allowability	Examiner	Art Unit			
	TAUQIR HUSSAIN	2452			
The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comn IGHTS. This application is	in this application. If not included nunication will be mailed in due cours			
1. ☑ This communication is responsive to <u>11/30/2009</u> .					
2. X The allowed claim(s) is/are 14-21, 28 and 29 which are rea	numbered as 1-10.				
 3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do 	e been received. e been received in Applicat	on No	rom the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 			E OF		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	ew (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	·				
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment of	or in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t) of		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			he		
Attachment(s)	s 🗆 Nation of	of control Detail Application			
1. Notice of References Cited (PTO-892)		nformal Patent Application			
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	Paper No	Summary (PTO-413), ./Mail Date s Amendment/Comment			
Paper No./Mail Date					
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		8. Examiner's Statement of Reasons for Allowance			
U.T.	9. Other	 N./			
/HT/ Patent Examiner, Art Unit 2452	/THU NGUYE Supervisory P	N/ atent Examiner, Art Unit 2452			

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Art Unit: 2452

DETAILED ACTION

Response to Amendment

1. This office action is in response to amendment /reconsideration filed on 11/30/2009, the amendment/reconsideration has been considered. Claims, 1-13 and 22-27 and 30-38 have been canceled, therefore claims 14-21 and 28-29 are pending for examination, the rejection cited as stated below.

Terminal Disclaimer

2. The terminal disclaimer filed on 12/08/2009 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent No: 7,593,996 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

- 3. Applicant's arguments and amendments, see remarks, pages 6-10, filed 11/30/2009, with respect to 14-21, 28 and 29 have been fully considered and are persuasive. The previous rejection has been withdrawn.
- 4. Claims 14-21, 28 and 29 has been allowed.

Reasons for Allowance

5. Prior art individually or in combination fails to teach, among other things the combination of "passing a set of cluster connection manager client information to the cluster partner, wherein the set of cluster connection manager client information includes at least one virtual interface and any memory requirements for a cluster

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Art Unit: 2452

manager client" and "creating a set of communication ports using the set of cluster connection manager client information, wherein the at least one virtual interface connection allows remote direct memory access (RDMA) operations that allow the cluster connection manager executing on the first server to directly access memory regions of the cluster partner operating on the second server before a storage operating system executing on the cluster partner is fully active, the RDMA read operation bypassing the operating system" and "alerting the cluster partner of a ready status" and "alerting a set of cluster connection manager clients that the cluster partner is in a ready state".

Page 3

These limitations, in conjunction with the other limitations in the independent claims 14, 28 and 29 are not specifically disclosed or remotely suggested in the prior art of the record or the cited references.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAUQIR HUSSAIN whose telephone number is (571)270-1247. The examiner can normally be reached on 7:30 AM to 5:00 PM.

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Art Unit: 2452

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571 272 6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. H./ Examiner, Art Unit 2452

/THU NGUYEN/ Supervisory Patent Examiner, Art Unit 2452